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BEFORE THE ARIZONA CORPORATION COMMISSION

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Arizona Corporation Commission

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AZ CORP COMMISSION
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ME

IN THE MATTER OF THE APPLICATION
OF ARIZONA PUBLIC SERVICE COMPANY
FOR A HEARING TO DETERMINE THE FAIR
VALUE OF THE UTILITY PROPERTY OF
THE COMPANY FOR RATEMAKING PURPOSES
TO FIX A JUST AND REASONABLE RATE OF
RETURN THEREON, TO APPROVE RATE
SCHEDULES DESIGNED TO DEVELOP SUCH
RETURN, AND TO AMEND DECISION NO
67744

Docket No.
E-01345A-05-0816

**FEDERAL EXECUTIVE
AGENCIES**

POST-HEARING BRIEF

IN THE MATTER OF THE INQUIRY INTO THE
FREQUENCY OF UNPLANNED OUTAGES
DURING 2005 AT PALO VERDE NUCLEAR
GENERATING STATION, THE CAUSES OF THE
OUTAGES, THE PROCUREMENT OF REPLACEMENT
POWER AND THE IMPACT OF THE OUTAGES
ON ARIZONA PUBLIC SERVICE CUSTOMERS

Docket No.
E-1345A-05-0826

IN THE MATTER OF THE AUDIT OF THE FUEL AND
PURCHASED POWER PRACTICES AND COSTS OF
THE ARIZONA PUBLIC SERVICE COMPANY.

Docket No.
E-1345A-05-0827

I. BACKGROUND

On November 4, 2005, Arizona Public Service Company ("APS" or "Company") filed an application in Docket No. E-01345A-05-0816, requesting a permanent rate base increase. On November 9, 2005, the Commission opened a docket to investigate the unplanned outages during 2005 at Palo Verde Nuclear Generating Station (Docket No. E-01345A-05-0826). The Commission also opened a docket to audit the fuel and purchased power practices of APS (Docket No. E-01345A-05-0827). The Company subsequently

1 submitted an amended application on January 31, 2006. These three dockets were
2 consolidated by procedural order on September 18, 2006.

3
4 In the amended application, APS asked the Commission to approve a permanent base
5 rate increase of \$449.6 million on annualized test year sales for its jurisdictional electric
6 operations. APS also requested that the Commission permanently modify or eliminate
7 the \$776.2 million "cap" placed on total annual net fuel and purchased power costs by
8 Decision No. 67744 (April 7, 2005) and make other changes to the Power Supply
9 Adjustment ("PSA") mechanism. APS further requested the Commission adopt and
10 approve an Environmental Improvement Charge ("EIC") to recover costs of
11 environmental improvements at the Company's fossil-fuel generating plants, and set an
12 initial EIC of \$.000152 per KWh. APS requested that the interim rate increase granted
13 by Decision No. 68685 (May 5, 2006) be made permanent in this proceeding.

14
15 The Company asserted in its amended application that APS's current rates and charges do
16 not produce a reasonable return on the fair value of its property devoted to public service,
17 and that the rate increase sought would enable the Company to maintain its credit rating
18 and attract new capital on reasonable terms. APS requested the Commission authorize an
19 11.5% return on equity, an increase which the Company asserted was necessary for APS
20 to continue as the type of financially strong utility that ensures continued reliable service
21 at reasonable prices into the future.

22
23 On February 2, 2006, the Commission issued Decision No. 68437, which allowed APS to
24 continue to defer fuel and purchased power costs in excess of the \$776.2 million "cap"
25 referenced in Decision No. 67744 until the issue was further examined in this docket.

26
27 On September 1, 2006, Federal Executive Agencies (FEA) filed the written testimony of
28 Colonel Ben Hancock, Commander, Marine Corps Air Station, Yuma (Exhibit FEA-5);
29 Colonel Ronald Mozzillo, Commander, 56th Mission Support Group, Luke Air Force
30 Base (Exhibit FEA-1) and Dr Dennis Goins (Exhibit FEA- 3). FEA also filed surrebuttal
31 testimony of Dr Dennis Goins, dated September 27, 2006 (Exhibit FEA-4). Dr Goins

1 and Colonel Mozzillo appeared during the hearing. Colonel Hancock was unavailable to
2 appear in person, and his testimony was admitted without cross examination. The FEA
3 testimony was limited to four principal cost-of-service and rate design issues, namely
4 allocation of demand-related production costs, allocation of energy-related production
5 cost, revenue spread, and voltage discounts for Rate E-34, as well as customer impact
6 testimony for Luke Air Force Base and Marine Corps Air Station Yuma. This brief will
7 be limited in scope to address the cost-of-service and rate design issues.

8 9 **II. ALLOCATION OF DEMAND-RELATED PRODUCTION COSTS.**

10 11 **A. What are the proposed allocation methodologies?**

12 **1. APS Proposal—4CP methodology.** APS proposes a 4 Coincident Peak (4CP)
13 methodology to allocate demand-related (fixed) production costs. APS allocated
14 demand-related production and transmission costs to major customer classes using the
15 average of its four test-year monthly summer (June-September) coincident system peaks.

16
17 **2. Staff Proposal—4CP&A methodology.** Staff witness Michael Brosch proposes a 4
18 Coincident Peak & Average (4CP&A) methodology to allocate demand-related
19 production costs. The 4CP&A methodology involves a “weighted combination of the
20 peak demand allocation factor used by APS, together with an average demand (or energy-
21 based) allocation factor.” This methodology weights the 4CP and the average demand by
22 the sum of the combined peak plus the average demand. In this case, Mr Brosch
23 combined APS’ 4CP demand data weighted at 65 percent, with average demand weighted
24 35 percent. (See Direct Testimony of Mr Michael Brosch, Exhibit Staff-7, page 13, lines
25 15-16).

26
27 **3. Intervenor—supporting 4CP methodology.** FEA, along with the other parties
28 representing customers in the General Service customer classes, namely Kroger and
29 Phelps Dodge Mining Company/Arizonans for Electric Choice and Competition
30 (PDMC/AECC), support the methodology proposed by APS. (See Direct Testimony of
31 Dr Dennis Goins, Exhibit FEA-3, page 6, lines 13-21; Direct Testimony of Mr Kevin

1 Higgins, Exhibit PDMC/AECC-5, page 2, lines 4-6; Direct Testimony of Mr Stephen
2 Baron, Exhibit Kroger-1, page 6, lines 8-9).

3
4 **B. What methodology should the Commission adopt for the allocation of demand-**
5 **related production costs?**

6
7 **The Commission should adopt the 4CP allocation methodology proposed by APS.**
8

9 If the cost-of-service methodology does not allocate and assign cost responsibility in a
10 reasonable manner, then interclass revenue subsidies are created and specific class rates
11 are either over- or under- priced, thereby sending erroneous price signals and causing
12 customers to make inefficient electricity investment and consumption decisions. APS'
13 retail demands are driven by summer usage. Mr Kevin Higgins delineated the significant
14 summer peak requirements in his Direct Testimony on Cost-of-Service/Rate Spread/Rate
15 Design. In this testimony, he highlights the fact that the average peak in the four summer
16 months is 50 percent greater than the average peak in the non-summer months (6,629
17 MW avg summer versus 4,423 MW non-summer). (See Direct Testimony of Mr Kevin
18 Higgins, Exhibit PDMC/AECC-5, page 3, line 31-33).

19
20 The 4CP&A methodology proposed by Staff suffers from two major flaws. First, the
21 methodology double counts average demand in the peak demand and energy (average
22 demand) components of the 4CP&A allocation factors. This occurs because average
23 demand is a subset of coincident peak demand. (See Surrebuttal Testimony of Dr Dennis
24 Goins, Exhibit FEA, page 7 lines 5-10; Hearing Testimony of Mr Kevin Higgins,
25 Transcript Volume XV, page 2996, lines 17-22). Staff could have avoided this double
26 counting by using an average and excess demand allocation methodology that
27 incorporated coincident peak demand. The 4CP&A methodology rests on the implicit
28 assumption that average demand is the principal determinant of a utility's decision to
29 build baseload plants that provide relatively low-cost energy year-round. A logical
30 corollary is that excess demand—the difference between peak and average demands—is
31 the principal determinant in decisions to build peaking and intermediate plants that

1 operated fewer hours and at much higher variable cost. However, instead of advocating
2 an average and excess demand allocation methodology that incorporates coincident peak
3 demands, Staff proposed a 4CP&A methodology that blends average and peak demands
4 in a manner that bears no discernible relationship between capacity planning and capacity
5 costs allocated to customer classes. Mr Brosch testified during the Hearing that he had
6 never proposed the 4CP&A methodology he proposed in this hearing in any other
7 proceeding prior to this case. (See Hearing Testimony of Mr Micheal Brosch, Transcript
8 Vol XVI, page 3144, lines 7-8).

9
10 The second flaw of the 4CP&A methodology proposed by Staff is the methodology
11 produces an asymmetrical allocation of production plant and fuel costs. (See Surrebuttal
12 Testimony of Dr Goins, Exhibit FEA-4, page 7, lines 25-28; page 8, lines 1-12)
13 Although the methodology allocates a higher percentage of fixed production costs—
14 especially baseload plant costs—to higher load factor classes, the 4CP&A methodology
15 does not allocate a similar higher percentage of the fuel-cost savings from baseload plants
16 to these classes. Staff did not adjust its cost-of-service study to offset this asymmetry in
17 allocating production costs. Instead, under Staff's 4CP&A cost study, each class is
18 allocated average system fuel costs. As a result, higher load factor customer classes bear
19 the higher capital cost of baseload plants without a fuel-cost savings offset—thereby
20 creating an unjustified subsidy for lower load factor Residential customers.

21
22 In addition to the reasons listed above, it is important to note that the Commission has
23 consistently approved the 4CP methodology in past APS rate cases. Additionally, the
24 Federal Energy Regulatory Commission (FERC) utilizes the 4CP methodology for
25 allocating costs in FERC rate proceedings involving APS. (See Hearing Testimony of Mr
26 Kevin Higgins, Transcript Vol XV, page 3057, lines 8-9). There is no testimony in this
27 case from any party that there are any factors that would tend to suggest that the
28 Commission should deviate from its past practice to adopt a new allocation methodology
29 such as 4CP&A. Furthermore, as Mr Kevin Higgins noted in his testimony, there are
30 few, if any, states that use 4CP&A methodology. (See Hearing Testimony of Mr Kevin
31 Higgins, Transcript Vol XV, page 2997, lines 16-18).

1
2 **III. ALLOCATION OF ENERGY-RELATED PRODUCTION COSTS.**

3
4 **A. What are the proposed allocation methodologies?**

5
6 **1. APS Proposal—loss adjusted kwh sales.** The APS cost-of-service study allocates
7 fuel and purchased power costs (“energy-related costs”) on the basis of kilowatt-hours
8 (kwh) consumed by each customer class. Under this approach, each class is allocated
9 average system fuel costs. Each kilowatt hour generated is assigned exactly the same
10 weight, regardless of whether it is consumed during high-cost summer on-peak periods or
11 lower-cost, off-peak periods. (See Direct Testimony of Mr Kevin Higgins, Exhibit
12 PDMC/AECC-5, page 8, lines 14 – 18).
13

14 **2. PDMC/AECC Proposal—hourly energy cost allocator.** PDMC/AECC Witness Mr
15 Kevin Higgins proposed a modification to the APS cost-of-service study that allocated
16 fuel and purchased power costs on the basis of each customer class’ energy cost
17 responsibility, taking into account the hourly costs for fuel and purchased power costs
18 and hourly loads by customer class. He made this modification via an energy cost
19 multiplier, which he developed for each customer class. (See Direct Testimony of Mr
20 Kevin Higgins, Exhibit PDMC/AECC-5, page 13, table KCH-3).
21

22 **B. What methodology should the Commission adopt for the allocation of energy-**
23 **related production costs?**

24
25 **The Commission should adopt the hourly energy cost allocator proposed by**
26 **PDMC/AECC witness Mr. Kevin Higgins.**
27

28 The results from Mr Higgins’ hourly energy cost analysis demonstrate that both the APS
29 and Staff cost studies understate the energy-related cost responsibility of Residential
30 customers and overstate the energy-related cost responsibility of higher load factor
31 General Service customers. As Mr Higgins mentions in his Direct Testimony, “it is not

1 fair for the cost of expensive summer usage of other customers to be transferred to
2 industrial customers via the averaging of annual energy costs in the cost-of-service
3 study.” (*Id.* at page 10, lines 15-17.) This is an especially unwarranted outcome when
4 there is information available that would allow for an hourly cost allocation such as that
5 which Mr Higgins has proposed. The witness for Kroger, Mr Stephen Baron stated
6 succinctly during cross-examination that “the hourly energy allocation mechanism is
7 simply a more detailed version of a traditional energy allocator, except that it’s done on
8 an hourly basis.” (Hearing Testimony of Mr Stephen Baron, Transcript Vol XV, page
9 2978, lines 10-13). Mr Baron further stated that it is “indisputable that that [energy
10 allocation mechanism] would be a more precise measure of the responsibility for energy
11 related costs of each class. (*Id.* at lines 14-16). The PDMC/AECC proposal is a
12 necessary improvement on the APS cost-of-service study, and should be adopted.
13

14 **IV. REVENUE SPREAD**

15 16 **A. What are various party proposals for revenue spread?**

17
18 **1. APS Proposal—roughly equal percentage basis.** APS spread its proposed revenue
19 increase on a roughly equal-percentage, across-the-board basis, for Residential (21.14
20 percent increase excluding the EIC) and General Service (21.60 percent increase)
21 customers. Irrigation customers got only a 0.14 percent increase, while the two Lighting
22 classes got increases of 24.11 percent and 10.49 percent. Under this proposed revenue
23 spread, the Interclass subsidies increase by more than 50 percent—from around \$44.5
24 million under present rates to more than \$67.2 million under proposed rates. (*See* Direct
25 Direct Testimony of Dennis Goins, Exhibit FEA-3, page 11, lines 3-5, Table 2, and
26 Exhibit DWG-2, page 2). That is, test-year revenues from APS’ proposed Residential
27 rates are about \$64.3 million less than APS’ costs (as determined in its cost-of-service
28 study) of serving this class. APS makes up this shortfall—as well as the \$2.9 million in
29 subsidies received by Lighting customers—primarily by overcharging General Service
30 customers (more than \$66.9 million). (*Id.* at lines 7-11).
31

1 **2. Staff Proposal—differential increases.** Staff witness Erinn A. Andresen's
2 recommended revenue spread uses results from Mr. Brosch's 4CP&A cost study as a
3 guide for spreading Staff's proposed \$204 million (9.56 percent) revenue increase from
4 rates. (See Direct Testimony of Erinn A. Andreasen, Exhibit Staff-, page 2, lines 7-14 and
5 page 5, lines 4-10). In general, she proposed increases close to the system average
6 increase for the Residential (9.69 percent) and General Service (9.52 percent) classes.
7 Within each of these major classes, she recommended differential increases to bring
8 specific rate schedules closer to cost of service as measured by results from Staff's
9 4CP&A cost study. Using this rate spread, the Residential subsidy increases to almost
10 \$43.9 million, while the subsidy paid by General Service customers goes to almost \$47.5
11 million. (See Surrebuttal Testimony of Dr Dennis Goins, Exhibit FEA-X, page 11, lines
12 13-15; page 12, Table 1S)

13
14 **3. RUCO Proposal—even distribution across customer classes.** The Residential
15 Utility Consumer Office (RUCO) witness Marylee Diaz Cortes recommends an even
16 distribution of the revenue requirement across all rate classes.

17
18 **4. Other Intervenor Proposals—reduce interclass subsidies.** Witnesses from FEA,
19 Kroger and PDMC/AECC all proposed revenue spreads that would reduce the amount of
20 interclass subsidies. Specifically, FEA witness Goins recommends reducing interclass
21 revenue subsidies under APS' proposed revenue spread by half, subject to no class'
22 receiving either a rate reduction or an increase greater than 150 percent of the average
23 system rate increase (excluding the EIC). (See Direct Testimony of Dr Dennis Goins,
24 Exhibit FEA-3, page 7, lines 1-13).

25
26 **B. What rate spread should the Commission adopt?**

27
28 **The Commission should adopt the FEA proposal to reduce interclass subsidies by**
29 **half, while ensuring that no customer class receives a rate decrease or an increase**
30 **grater than 150 percent of the system average rate increase.**

1 The fundamental principles of efficiency and fairness in ratemaking require that rates for
2 each class should reflect cost of service. Although APS' proposed revenue spread moves
3 rates for Residential and General Service classes closer to cost of service, the interclass
4 subsidies increase by more than 50 percent—from around \$44.5 million under current
5 rates to more than \$67.2 million under proposed rates. Approximately \$64.3 million of
6 that interclass subsidy goes to Residential customers. (*See* Direct Testimony of Dr
7 Dennis Goins, Exhibit FEA-XX, page 11, lines 6-7).

8
9 The recommendation of Staff witness Ms. Andreasen is based on a seriously flawed cost
10 study, and exacerbates the interclass revenue subsidy problem. The subsidy increases
11 under the Staff's proposed rate spread, even when the subsidy is measured relative to cost
12 responsibility determined by Staff's recommended 4CP&A cost study. (*Id.* at 11-20).

13 14 **V. VOLTAGE DISCOUNTS FOR RATE E-34**

15 16 **A. What are the various proposals for voltage discounts for Rate E-34?**

17
18 **1. APS proposed voltage discounts—increased discounts for customers served at**
19 **transmission voltage.** APS has increased the voltage discount for customers served at
20 transmission voltages (69 kV and higher) from \$4.30 per kW to \$4.52 per kW. However,
21 discounts for customers served directly from a Primary Substation¹ or from Primary
22 voltage lines remain unchanged at \$3.40 per kW and \$0.66 per kW, respectively.

23
24 **2. FEA proposed voltage discounts.** FEA proposed increasing the voltage discounts
25 for customers served at primary substation and primary lines, in addition to the increased
26 discounts for customers served at transmission voltages. Specifically, FEA recommends
27 a discount of \$4.72/kW for transmission customers, \$4.04/kW for customers served from
28 a primary substation and \$0.79 for customers served from primary lines. (*See* Direct
29 Testimony of Dr Dennis Goins, Exhibit FEA-3, page 18, Table 6).

¹ This discount currently applies only to military bases taking primary service directly from an APS-owned substation.

1
2 **B. What voltage discounts should the Commission approve?**

3
4 **The Commission should approve the voltage discounts proposed by FEA, namely**
5 **\$4.72/kW for transmission customers, \$4.04/kW for customers served from a**
6 **primary substation and \$0.79/kW for customers served from primary lines.**

7
8 No other party opposed increasing the voltage discounts as proposed by FEA witness
9 Goins. The proposed discounts are cost-based, and do not impact the revenue
10 requirement of any other rate class. (See Hearing Testimony of David Rumolo,
11 Transcript Volume XIV, page 2777 lines 9-12). In fact, APS witness David Rumolo
12 noted that "what [Dr] Goins adopted was the exact numbers that fell out of our cost-of-
13 service study." (*Id.* at line 1)

14
15 Customers served under Rate E-34 take delivery service at transmission, primary, and
16 secondary voltages as defined by APS. The cost of serving customers at different
17 voltages varies because of differences in the types and cost of equipment needed to
18 deliver service and energy losses that increase as the service delivery voltage decreases.
19 The voltage discounts in Rate E-34 should reflect these cost-of-service differences as
20 accurately as possible.

21
22 **VI. FEA RECOMMENDATIONS**

23
24 **1. The Commission should adopt the 4CP allocation methodology proposed by APS**
25 **for allocation of demand-related production costs.**

26
27 **2. The Commission should adopt the hourly energy cost allocator proposed by**
28 **PDMC/AECC witness Mr. Kevin Higgins for the allocation of energy-related**
29 **production costs.**

1 **3. The Commission should adopt the FEA proposal to reduce interclass subsidies by**
2 **half, while ensuring that no customer class receives a rate decrease or an increase**
3 **grater than 150 percent of the system average rate increase.**

4
5 **4. The Commission should approve the voltage discounts proposed by FEA, namely**
6 **\$4.72/kW for transmission customers, \$4.04/kW for customers served from a**
7 **primary substation and \$0.79/kW for customers served from primary lines.**

8
9
10
11
12 RESPECTFULLY SUBMITTED this 22nd day of January, 2007

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